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# Report on the individual review of the report upon expiration of the additional period for fulfilling commitments (true-up period) for the first commitment period of the Kyoto Protocol of Liechtenstein

According to decisions 13/CMP.1 and 3/CMP.10, each Party included in Annex I with a commitment inscribed in Annex B to the Kyoto Protocol (Annex B Party) shall submit to the secretariat prior to 2 January 2016 a report upon expiration of the additional period for fulfilling commitments for the first commitment period of the Kyoto Protocol (hereinafter referred to as the true-up period report). The true-up period report, prepared individually for each Annex B Party, aims to facilitate the assessment of whether the aggregate anthropogenic greenhouse gas emissions for the first commitment period exceed the quantities of Kyoto Protocol units valid for the first commitment period in the retirement account of that Party. This report presents the results of the individual review of the true-up period report submission of Liechtenstein conducted by an expert review team in accordance with Article 8 of the Kyoto Protocol.

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# I. Introduction

1. This report covers the review of the report upon expiration of the additional period for fulfilling commitments for the first commitment period of the Kyoto Protocol (hereinafter referred to as the true-up period report) of Liechtenstein, conducted in accordance with the "Guidelines for review under Article 8 of the Kyoto Protocol" (hereinafter referred to as the Article 8 review guidelines).[1] The centralized review took place from 8 to 12 February 2016 in Bonn, Germany, and was conducted by the following team of nominated experts from the UNFCCC roster of experts: Mr. Mikhail Gitarskiy (Russian Federation); Ms. Baasansuren Jamsranjav (Mongolia); Mr. Timo Pulles (Netherlands); and Mr. Hongwei Yang (China).[2] Ms. Jamsranjav and Mr. Gitarskiy were the lead reviewers. The review was coordinated by Mr. Tomoyuki Aizawa (UNFCCC secretariat).

2. In accordance with the Article 8 review guidelines, a draft version of this report was sent to the Government of Liechtenstein, which provided comments that were considered and incorporated, as appropriate, into this final version of the report.

# II. Summary and general assessment of the report

3. Table 1 provides a summary of the assessment by the expert review team (ERT) of the true-up period report submission and additional documents submitted during the review, with respect to timeliness, completeness, consistency and compliance with the commitment under Article 3, paragraph 1, of the Kyoto Protocol. Specific findings to support this assessment are presented in more detail in table 2.

Table 1
**The expert review team's overall assessment of the true-up period report submission**

| *Element* | *Item* | *Fulfilled* | *Comments* |
|---|---|---|---|
| Timeliness | Did the Party submit the true-up period report and accompanying documents by 2 January 2016? | Yes | Date: 2 January 2016 |
| Completeness | Is the submission complete? | Yes | |
| | Is the information reported in accordance with decision 13/CMP.1? | Yes | |
| Consistency | Is the reported information consistent with the compilation and accounting database and the Party's registry? | Yes | |
| | Is the information provided by the Party (SEF tables, R2–R5 reports[a]) consistent with the ITL information? | Yes | |
| Compliance | Are the aggregate anthropogenic greenhouse gas emissions below or equal to the quantities of ERUs, CERs, tCERs, lCERs, AAUs and RMUs in the | Yes | |

[1] Annex to decision 22/CMP.1.

[2] Mr. Yang was involved in the review, but was unable to attend the centralized review in Bonn due to illness.

| *Element* | *Item* | *Fulfilled* | *Comments* |
|---|---|---|---|
| | retirement account? | | |

*Abbreviations*: AAU = assigned amount unit, CER = certified emission reduction, ERU = emission reduction unit, ITL = international transaction log, lCER = long-term CER, RMU = removal unit, SEF = standard electronic format, tCER = temporary CER.

[a] Report R2 (list of discrepant transactions) provides information on any discrepancies identified by the ITL, and additional information required under decision 15/CMP.1, annex, paragraph 12; report R3 (list of clean development mechanism (CDM) notifications) provides information on any notification received by the Party from the Executive Board of the CDM, directing the Party to replace lCERs, in accordance with decision 15/CMP.1, annex, paragraphs 13 and 14; report R4 (list of non-replacements) provides information on any record of non-replacement identified by the ITL, and the additional information required under decision 15/CMP.1, annex, paragraph 15; and report R5 (list of invalid units) provides information on the quantities of Kyoto Protocol units held in the national registry that are not valid for use towards compliance with commitments under Article 3, paragraph 1, of the Kyoto Protocol, in accordance with decision 15/CMP.1, annex, paragraph 16.

# III. Technical assessment of the elements reviewed

4. Liechtenstein made its true-up period report submission on 2 January 2016; the submission contains the true-up period report, the standard electronic format (SEF) tables for the period 1 January to 18 November 2015, reports R2–R5[3] for the period 1 January to 18 November 2015, reports R2–R5 for 2014, the list of serial numbers for the Kyoto Protocol units in the retirement account at the end of the true-up period and the list of serial numbers for the emission reduction units (ERUs), certified emission reductions (CERs) and assigned amount units (AAUs) that the Party requests to be carried over to the second commitment period.

5. Table 2 contains the ERT assessment of the true-up period report submission of Liechtenstein with respect to all elements reviewed. In that assessment, the ERT took note of the findings included in the true-up period independent assessment report (TUPAR) for the first commitment period of the Kyoto Protocol prepared by external assessors (registry system administrators). The TUPAR of Liechtenstein was prepared and forwarded to the ERT during the review, pursuant to paragraph 5(a) of decision 16/CP.10.

Table 2
**The expert review team's assessment of the elements reviewed**

| *Mandate*[a] | *Reporting requirements* | *Fulfilled* | *Comments* |
|---|---|---|---|
| Decision 3/CMP.10, paragraph 3 | The true-up period report for the first commitment period was submitted by 2 January 2016 | Yes | |
| Decision 22/CMP.1, annex, paragraph 89(a) | The Party submitted information in accordance with decision 13/CMP.1, annex, paragraph 49 | Yes | |
| Decision 13/CMP.1, annex, paragraph 49(a) | The Party submitted and made available to the public the SEF tables for 2015 and the total quantities of the categories of ERUs, | Yes | |

[3] Report R2 is a list of discrepant transactions identified by the international transaction log (ITL); report R3 is a list of notifications received from the Executive Board of the clean development mechanism (CDM) directing the Party to replace long-term certified emission reductions; report R4 is a list of non-replacements identified by the ITL; report R5 is a list of units held in the national registry that are not valid for use towards compliance.

| *Mandate*[a] | *Reporting requirements* | *Fulfilled* | *Comments* |
|---|---|---|---|
| | CERs, AAUs and RMUs valid for the first commitment period listed in decision 13/CMP.1, annex, paragraph 47(a–j), for the period 1 January to 18 November 2015 | | |
| Decision 13/CMP.1, annex, paragraph 49(b) | The Party submitted and made available to the public the SEF tables for 2015 and the total quantity and serial numbers of ERUs, CERs, AAUs and RMUs valid for the first commitment period in its retirement account | Yes | |
| Decision 13/CMP.1, annex, paragraph 49(c) | The Party submitted and made available to the public the SEF tables for 2015 and the total quantity and serial numbers of ERUs, CERs and AAUs valid for the first commitment period which the Party requested to be carried over to the subsequent commitment period | Yes | |
| Decision 22/CMP.1, annex, paragraph 89(b) | The information submitted by the Party is consistent with the information contained in the compilation and accounting database and with the information contained in the Party's registry | Yes | |
| Decision 22/CMP.1, annex, paragraph 89(c) | Is the information submitted by the Party in accordance with decision 22/CMP.1, annex, paragraph 88, free of inconsistencies and problems? | Yes | |
| Decision 22/CMP.1, annex, paragraph 89(d), and decision 5/CMP.1, annex, paragraph 59(a) | The information submitted by the Party shows that the quantity of AAUs, CERs, tCERs, ERUs and RMUs transferred into the tCER replacement account for the commitment period is equal to the quantity of tCERs in the retirement account, and in the tCER replacement account, that expired at the end of the commitment period | Yes | |
| Decision 22/CMP.1, annex, paragraph 89(e), and decision 5/CMP.1, annex, paragraph 59(b) | The information submitted by the Party shows that the quantity of AAUs, CERs, lCERs, ERUs and RMUs transferred into the lCER replacement account for the commitment period is equal to the sum of the quantity of lCERs in the retirement account, and the quantity of lCERs in the lCER replacement account, that expired at the end of the commitment period, and the quantity of lCERs identified by the Executive Board of the CDM as requiring replacement within the registry for the commitment period | Yes | |
| Decision 22/CMP.1, annex, paragraph 90 | The Party submitted the information requested in accordance with decision 15/CMP.1, annex, paragraph 20, and decision 22/CMP.1, annex, paragraph 88 | Yes | |

| *Mandate*[a] | *Reporting requirements* | *Fulfilled* | *Comments* |
|---|---|---|---|
| Decision 15/CMP.1, annex, paragraph 20 | The Party submitted the R2–R5 reports[b] for 2015 or provided a reference in the true-up period report (section II), and the information is accurate | Yes | |
| Decision 15/CMP.1, annex, paragraph 11 | The Party submitted the SEF tables for 2014 or provided a reference in the true-up period report (section II), and the information is accurate | Yes | |
| Decision 15/CMP.1, annex, paragraphs 12–16 | The Party submitted the R2–R5 reports for 2014 or provided a reference in the true-up period report (section II), and the information is accurate | Yes | See paragraph 6 below |
| Decision 15/CMP.1, annex, paragraph 17 | The Party provided information in the true-up period report on actions to correct discrepancies, changes to the national registry to prevent discrepancies from reoccurring and resolution of previous questions of implementation pertaining to transactions (section IV.a), and the information is accurate | Yes | |
| Decision 15/CMP.1, annex, paragraph 18, and decision 22/CMP.1, annex, paragraph 88(h) | The Party provided information in the true-up period report on the calculation of the commitment period reserve (section IV.b), and the information is accurate | Yes | |
| Decision 22/CMP.1, annex, paragraph 91 | The aggregate anthropogenic greenhouse gas emissions in the first commitment period are below or equal to the quantities of ERUs, CERs, tCERs, lCERs, AAUs and RMUs in the retirement account of the Party for the first commitment period | Yes | |

*Abbreviations*: AAU = assigned amount unit, CDM = clean development mechanism, CER = certified emission reduction, ERU = emission reduction unit, lCER = long-term CER, RMU = removal unit, SEF = standard electronic format, tCER = temporary CER.

[a] The requirement in decision 15/CMP.1, annex, paragraph 19, relating to the access of the expert review team to the information held in the national registry is voluntary and will be checked upon request; the requirement in decision 22/CMP.1, annex, paragraph 88(i), relating to the calculation of the assigned amount to avoid double accounting for some activities under Article 3, paragraph 4, of the Kyoto Protocol (cropland management, grazing land management and revegetation) is not part of the true-up period assessment because the requirement is assessed annually as a precondition for issuing RMUs for the selected activities.

[b] Report R2 (list of discrepant transactions) provides information on any discrepancies identified by the international transaction log (ITL), and additional information required under decision 15/CMP.1, annex, paragraph 12; report R3 (list of CDM notifications) provides information on any notification received by the Party from the Executive Board of the CDM, directing the Party to replace lCERs, in accordance with decision 15/CMP.1, annex, paragraphs 13 and 14; report R4 (list of non-replacements) provides information on any record of non-replacement identified by the ITL, and the additional information required under decision 15/CMP.1, annex, paragraph 15; and report R5 (list of invalid units) provides information on the quantities of Kyoto Protocol units held in the national registry that are not valid for use towards compliance with commitments under Article 3, paragraph 1, of the Kyoto Protocol, in accordance with decision 15/CMP.1, annex, paragraph 16.

6. During the review the ERT noted apparent mistakes in the true-up period submission of Liechtenstein, namely: the discrepancies identified in the transactions were not included in the true-up period report and the R2-R5 reports were provided for the year 2013 instead

of 2014. In response to the questions raised by the ERT during the review, Liechtenstein clarified and confirmed the ERT findings, resubmitted its true-up period report and submitted the correct R2-R5 reports for 2014 on 12 February 2016. With this resubmission the ERT considers that the problems are resolved.

## IV. Conclusions and recommendations

7. The ERT concluded that the information provided by Liechtenstein in its true-up period report submission covers all elements as required by decisions 13/CMP.1, 15/CMP.1, 3/CMP.10 and other relevant decisions of the Conference of the Parties serving as the meeting of the Parties to the Kyoto Protocol.

8. On the basis of the assessment of the information submitted and decision 22/CMP.1, annex, paragraph 91, the ERT concluded that the aggregate anthropogenic greenhouse gas emissions of Liechtenstein for the first commitment period do not exceed the quantities of ERUs, CERs, temporary CERs, long-term CERs, AAUs and removal units (RMUs) in the retirement account of Liechtenstein for the first commitment period.

9. In its true-up period report submission, Liechtenstein requests to carry over 42,984 AAUs to the second commitment period of the Kyoto Protocol. The ERT concluded that the quantity of AAUs requested to be carried over by the Party to the second commitment period is consistent with the requirements set out in decision 13/CMP.1, annex, paragraph 15.

10. The ERT recommends that Liechtenstein ensure accurate submissions of its national reports.

## V. Questions of implementation

11. No questions of implementation were identified by the ERT during the review.

# Annex I

## Key relevant data for the Party in the first commitment period

Table 3
**Summary of key information for Liechtenstein in the first commitment period**

| *Key parameters* | *Values*[a] |
|---|---|
| Base year defined under the Kyoto Protocol[b] – $CO_2$, $CH_4$ and $N_2O$/F-gases | 1990/1990 |
| Base year GHG emissions[c] (t $CO_2$ eq) | 229 483 |
| Quantified emission limitation or reduction commitment in the first commitment period – Annex B (% of base year level) | 92 |
| Assigned amount established in accordance with Article 3, paragraph 7, of the Kyoto Protocol (t $CO_2$ eq) | 1 055 623 |
| Total GHG emissions in the first commitment period (t $CO_2$ eq) | 1 175 109 |
| Total amount of Kyoto Protocol units retired in the first commitment period (units) | 1 175 109 |
| Quantities of AAUs, CERs and ERUs that were available to be carried over to the second commitment period (units) on 19 November 2015 | 42 984 AAUs |
| Quantities of AAUs, CERs and ERUs that are requested to be carried over to the second commitment period (units) | 42 984 AAUs |

*Abbreviations*: AAU = assigned amount unit, CER = certified emission reduction, ERU = emission reduction unit, GHG = greenhouse gas, F-gases = fluorinated gases, t $CO_2$ eq = tonnes of carbon dioxide equivalent.

[a] Source: compilation and accounting database, international transaction log or true-up period report submitted by the Party.

[b] Parties included in Annex I may choose to use 1995 as the base year for total emissions of F-gases (hydrofluorocarbons, perfluorocarbons and sulphur hexafluoride), in accordance with Article 3, paragraph 8, of the Kyoto Protocol.

[c] Refers to the total base year GHG emissions used for the calculation of the assigned amount pursuant to Article 3, paragraphs 7 and 8, of the Kyoto Protocol.

# Annex II

## Documents and information used during the review

### A. Reference documents

"Modalities for the accounting of assigned amounts under Article 7, paragraph 4, of the Kyoto Protocol". Annex to decision 13/CMP.1. Available at <http://unfccc.int/resource/docs/2005/cmp1/eng/08a02.pdf#page=23>.

"Guidelines for the preparation of the information required under Article 7 of the Kyoto Protocol". Annex to decision 15/CMP.1. Available at <http://unfccc.int/resource/docs/2005/cmp1/eng/08a02.pdf#page=56>.

"Guidelines for review under Article 8 of the Kyoto Protocol". Annex to decision 22/CMP.1. Available at <http://unfccc.int/resource/docs/2005/cmp1/eng/08a03.pdf#page=51>.

"Modalities and procedures for afforestation and reforestation project activities under the clean development mechanism in the first commitment period of the Kyoto Protocol". Annex to decision 5/CMP.1. Available at <http://unfccc.int/resource/docs/2005/cmp1/eng/08a01.pdf#page=61>.

"Issues relating to registry systems under Article 7, paragraph 4, of the Kyoto Protocol". Decision 16/CP.10. Available at <http://unfccc.int/resource/docs/cop10/10a02.pdf#page=64>.

"Date of the completion of the expert review process under Article 8 of the Kyoto Protocol for the first commitment period". Decision 3/CMP.10. Available at <http://unfccc.int/resource/docs/2014/cmp10/eng/09a01.pdf#page=13>.

FCCC/ARR/2014/LIE. Report on the individual review of the annual submission of Liechtenstein submitted in 2014. Available at <http://unfccc.int/resource/docs/2015/arr/lie.pdf>.

### B. Additional information provided by the Party

Responses to questions during the review were received from Ms. Heike Summer (Liechtenstein Office of Environment).

# Annex III

## Acronyms and abbreviations

| | |
|---|---|
| AAU | assigned amount unit |
| CDM | clean development mechanism |
| CER | certified emission reduction |
| ERT | expert review team |
| ERU | emission reduction unit |
| GHG | greenhouse gas |
| ITL | international transaction log |
| lCER | long-term certified emission reduction |
| Report R2 | list of discrepant transactions identified by the international transaction log |
| Report R3 | list of notifications received from the Executive Board of the CDM directing the Party to replace long-term certified emission reductions |
| Report R4 | list of non-replacements identified by the international transaction log |
| Report R5 | list of units held in the national registry that are not valid for use towards compliance |
| RMU | removal unit |
| SEF | standard electronic format |
| tCER | temporary certified emission reduction |
| TUPAR | true-up period independent assessment report |
| UNFCCC | United Nations Framework Convention on Climate Change |